

**CDM Fax****CDM**

SDMS Document ID



2009537

318 Louisiana Avenue  
Libby, Montana 59923  
406.293.8595  
406.293.8901

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone.

To: Jim Christiansen From: Libby Field Office  
T. Keller, J. Grossman  
Organization: EPR Date: 8/18/02  
Fax No.: 303-312-6897 Time:  
Re: Deviation/Modification forms Job #:  
# of Pages: 22  
(Including cover sheet)

## ● Message:

Deviation/Modification forms and  
supporting paperwork requiring  
your signature.

#'s 43 to 47

Please sign and return  
Thank you

## Libby Sampling and Quality Assurance Project Plan

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.**

**File approved copy with:** \_\_\_\_\_

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II, (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)

Scenario No. (circle one):    1    2    3    4    NA

Requestor: Doc Warren  
Company: CDM

Title: CSS Task Leader  
Date: 6/29/02

**Description of Deviation:**

Secondary Structure IFFs will be completed only when hemichitin is present in the secondary structure.

Field Logbook and page number deviation is documented on: 100057 or 11

Reason for Deviation:

Reason for Deviation: Secondary IFT not need for documentation when no verifiable life is present. See patented inspirations.

**Potential Implications of this Deviation:**

Note - presence or absence of vertebral life in each structure will be documented in logbook and primary IFE

**Duration of Deviation (circle one):**

**Temporary Date(s):**

**Date(s):**

**Resident address(es):**

**Permanent** (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

See attached copy of logbook pages.

## Technical Review:

~~(Volpe Project Manager or designate) does not apply to C&S~~

Date: 7/27/02

**Quality Assurance Review and Approval:**

(Quality Assurance Coordinator or designate)

Date: 9/29/02

Approved By:

(USE PA RAM, OSC, or SSC)

Title: KPM

Date: 8/20/02

SCAPBm09101114251 dec  
67/08



# Record of Deviation/ Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: Dee Warren  
Company: CDM

Title: CSS Task Leader  
Date: 7-15-02

## Description of Deviation:

Alconox detergent is not used as part of the decontamination procedures and steel brushes will be used to remove gross contamination.

Field Logbook and page number deviation is documented on: 10057 page 132

## Reason for Deviation:

Asbestos is not dissolved by detergent. Therefore the use of detergent in the decon procedure is not needed.

## Potential Implications of this Deviation:

None

## Duration of Deviation (circle one):

Temporary

Date(s):

Resident address(es):

Permanent (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

Site-Specific SOP for Soil Sample Collection. See attached copy of logbook documentation.

## Technical Review:

(Volpe Project Manager or designate) does not apply to CSS

Date:

7/19/02

## Quality Assurance Review and Approval:

(Quality Assurance Coordinator or designate)

Date:

7/19/02

## Approved By:

(USEPA RPM, OSC, or SSC)

3282-116-PP-SAMP-15211

Libby Asbestos RI SAP

RPM

Date:

8/20/02

SQAPPmodformv3(1).doc  
8/7/02

7/19/2002

Record of Deviation/Request for Modification



Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

Instructions to Requester: Fax to contacts at bottom of form for review and approval.

Project WAPT (circle one): a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: Dee Warren Title: CSS Task Leader  
Company: CDM Date: 7-15-02

Description of Deviation:  
Soil samples will be shipped in cooler lined with garbage bags. The garbage bags will be sealed with a rusted seal.  
Field Logbook and page number deviation is documented on: 100057 page 132-133  
Reason for Deviation:  
Another step to insure samples are kept under proper custody until they are received at the laboratory.

Potential Implications of this Deviation:  
None

Duration of Deviation (circle one):  
Temporary Date(s):  
Resident address(es):  
Permanent (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):  
See attached copy of logbook pages.

Technical Review: [Signature] Date: 7/19/02  
(Volpe Project Manager or designate) does not apply to CSS

Quality Assurance Review and Approval: [Signature] Date: 7/19/02  
(Quality Assurance Coordinator or designate)

Approved By: [Signature] Title: 8/20/02 RPM  
(USEPA RPM, OSC, or SSC)



# Record of Deviation/ Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)  
Sediment Core Pilot Study (app. 6/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: N. Coldack

Title: Chemist

Company: USEPA, RS

Date: 7.11.02

## Description of Deviation:

Cores were sectioned @ 1 1/2" intervals @ Flower Lake & 0.5" intervals @ St. Mary's Lake. Photos were not taken of each core segment

Field Logbook and page number deviation is documented on: 12 B28

## Reason for Deviation:

Core lengths & inferred sedimentation rates suggested alternate core segment thicknesses than proposed in the SQAPP. Photos of all segments (~60) was not feasible or practical since

Potential Implications of this Deviation: lighting was not ideal to reveal striations of sedimentation.

A coarse estimate of dating is likely, but sufficient for a pilot study. Increased probability to find asbestos fibers w/ a larger sample

## Duration of Deviation (circle one):

Temporary

Date(s): 6.27.02 & 6.28.02

Resident address(es): Flower Lake

St. Mary's Lake

Permanent: (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

Technical Review: Nancy Coldack  
(Volpe Project Manager or designate) does not apply to CSS

Date: 7.11.02

Quality Assurance Review and Approval: [Signature]  
(Quality Assurance Coordinator or designate)

Date: 7/19/02

Approved By: J. Christensen  
(USEPA RPM, OSC, or SSC)

Title: RPM

Date: 8/20/02



# Record of Deviation/ Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending).  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approved 5/02)  
Lakebottom Sediment Core Pilot Study (app. 6/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: M. Goldade  
Company: USEPA, RG

Title: chemist  
Date: 7.11.02

## Description of Deviation:

Archived samples not retained for pilot study.

Field Logbook and page number deviation is documented on: 11, 33

## Reason for Deviation:

The core could not be retained intact in transit to the lab.

## Potential Implications of this Deviation:

Further evaluation of cores cannot be performed, if necessary. Implications are that if questions remain, further sampling would be necessary. However, as a pilot study, this is simply a range-finding effort. Impact is minimal.

Duration of Deviation (circle one): Temporary

Temporary

Date(s):

Resident address(es):

Permanent

(complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable): pg. 6 Sect B3 "Study Cores" & pg. 7, Sect B3 "Sample Handling & Archive" → Change language to indicate what an archive core will be collected if desired.

## Technical Review:

(Volpe Project Manager or designate) does not apply to CSS

Date: 7/11/02

## Quality Assurance Review and Approval:

(Quality Assurance Coordinator or designate)

Date: 7/19/02

## Approved By:

(USEPA RPM, OSC, or SSC)

Title:

RPM

Date:

8/20/02

**Record of Deviation/  
Request for Modification**

to the

Libby Sampling and Quality Assurance Project Plan

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.****File approved copy with [redacted] or fax copy to [redacted].**

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)

Scenario No. (circle one): 1 2 3 4 NARequester: Dee WarrenTitle: CSS Task LeaderCompany: CDMDate: 6/29/02

## Description of Deviation:

Secondary Structure IFFs will be completed only when vermiculite is present in the secondary structure.Field Logbook and page number deviation is documented on: 100057 pg 111

## Reason for Deviation:

Secondary IFF not need for documentation when no vermiculite is present. See potential implications.

## Potential Implications of this Deviation:

None - presence or absence of vermiculite in each structure will be documented in logbook and primary IFF

## Duration of Deviation (circle one):

Temporary

Date(s): \_\_\_\_\_

Resident address(es): \_\_\_\_\_

Permanent

(complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

See attached copy of logbook pages.

## Technical Review: \_\_\_\_\_

(Volpe Project Manager or designate) does not apply to CSS

Date: \_\_\_\_\_

## Quality Assurance Review and Approval: \_\_\_\_\_

(Quality Assurance Coordinator or designate)

Date: \_\_\_\_\_

Approved By: Jim Christensen

(USEPA RRM, OSC, or SSC)

Title: RRM8/20/02Date: 8/20/02

110

Location Libby, MTDate 6/29/02Project / Client Libby Asbestos SiteVolpe Center EPA Region 81545 Prepare Modification Form 000042:  
Version 3 of Primary Information Field Form.

Following changes were made to the Form:

a) Number of Adults/Employees: 0 is added

as an option to use when properties are

variant.

b) Vermiculite <sup>②</sup> Insulation Test or Present

Portion of the Indoor Assessment: Unknown

added as an option to all categories to

use when <sup>②</sup> question can not be

answered.

c) Exposure Assessment: Not Applicable

added to all categories as an option. To be

used when vermiculite is not present at the

property.

d) Did the interper ever have Zonidite affe

insulation? Question answer NA provided

to be used if the currently has ZAL

e) Question "Is there evidence of primary

source materials near the property?" changed to

"Is there any evidence of primary source

materials at or near the property?"

f) 1629 Prepare Modification Form 000043:

Secondary Structure IFFs are to be completed

Location Libby, MTDate 6/29/02Project / Client Libby Asbestos SiteVolpe Center EPA Region 8

only if Vermiculite is observed in that structure otherwise the lack of vermiculite in a secondary structure should be noted in the logbook.

Changes to SAP: page 4-6 3rd

paragraph "IFF will be completed for

every building located within the property

boundary." Will be change to "... IFF

will be completed for every primary

structure and secondary structures

only when vermiculite is present in the

secondary structure.

1700- Teams return to office to

complete paperwork.

Done  
6/29/02

BD# \_\_\_\_\_

**LIBBY ASBESTOS PROJECT**  
**Contaminant Screening Study**  
**Primary Structure and Property Assessment Information Field Form**

Field Logbook No.: \_\_\_\_\_ Page No.: \_\_\_\_\_ Site Visit Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Structure Description: \_\_\_\_\_  
 Occupant: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
 Owner (if different than occupant): \_\_\_\_\_ Phone Number: \_\_\_\_\_  
 Sampling Team: \_\_\_\_\_  
 Field Form Check Completed by (100% of forms): \_\_\_\_\_  
 Screening Field Check Completed by (2% of forms): \_\_\_\_\_

Data Item	Value	Notes
<b>HOUSE ATTRIBUTES</b>		
Property Description	Residential Industrial Commercial	
Surrounding Land Use	Residential Industrial Commercial School Mining Other: _____	
Year of Construction	_____ Unknown	
Square Footage		
Construction Material	Wood frame Masonry/Stone Other: _____	
Number of Floors Above Ground	1 2 3 Other: _____	
Number of Rooms Per Floor Above Ground	1: _____ 2: _____ 3: _____ Other: _____	
Basement	Yes No	
Heating Source	Wood/Coal Electric Propane/Gas Other: _____	
Heat Distribution	Forced air Radiant Other: _____	

**CSS INFORMATION FIELD FORM (continued)**

Address: \_\_\_\_\_

BD# \_\_\_\_\_

Data Item	Value	Notes
<b>OCCUPANT INFORMATION</b>		
Number of Adults/Employees	0   1   2   3   4 5-15   16-20   21-30   >30	
Number of Children	0   1   2   3   4 Other: _____	
Years at Location	<1   1-5   5-10   10-15   >15	
Was the residence/building remodeled?	Yes   No If yes, When (years):   <2   2-5   >5 Where:   Attic   Living Areas Garage   Basement Other: _____	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes   No	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes   No	
Are there any known areas of exposed vermiculite?	Yes   No If yes, Where:   Ceiling   Walls Floors   Attic Other: _____	

**CSS INFORMATION FIELD FORM (continued)**

Address: \_\_\_\_\_

BD# \_\_\_\_\_

Data Item	Value	Notes
<b>INDOOR ASSESSMENT</b>		
Vermiculite Insulation Past or Present	Attic: Yes No NA Unknown Walls: Yes No NA Unknown Basement: Yes No NA Unknown Crawl Space: Yes No NA Unknown Other: _____	Visual confirmation of current presence or absence required for attic.
Evidence of Physical Damage?	Yes No	
Evidence of Water Damage?	Yes No	
<b>OUTDOOR ASSESSMENT</b>		
Libby Amphibole Sources Present	Garden: Yes No NA Yard: Yes No NA Stockpiles: Yes No NA Other: _____	
Proximity to Other Properties with Potential Sources of Libby Amphiboles	Next door Within same block Other: _____ Unknown	

## CSS INFORMATION FIELD FORM (continued)

Address: \_\_\_\_\_

BD# \_\_\_\_\_

Data Item	Value	Notes
<b>EXPOSURE ASSESSMENT</b>		
Type and Frequency of Activity Near Vermiculite Material - Indoor	Frequency: Once a day Once a week Once a month Once a year Not Applicable	Not Applicable applies when no vermiculite is present on the property.
	Duration of Contact: <1 hour 1-2 hours 2-4 hours >4 hours Not Applicable	
	Extent of Contact: Heavy Moderate Light Not Applicable	
Type and Frequency of Activity Near Vermiculite Material - Outdoor	Frequency: Once a day Once a week Once a month Once a year Not Applicable	Not Applicable applies when no vermiculite is present on the property.
	Duration of Contact: <1 hour 1-2 hours 2-4 hours >4 hours Not Applicable	
	Extent of Contact: Heavy Moderate Light Not Applicable	

**CSS INFORMATION FIELD FORM (continued)**

Address: \_\_\_\_\_

BD# \_\_\_\_\_

Data Item	Value	Notes
<b>CONTAMINANT SCREENING STUDY ASSESSMENT</b>		
<b>Occupant Information</b>		
Is there any knowledge of former miners, close relative of miners, or any highly exposed persons living or visiting the property?	Yes                      No Unknown	
Is the resident, past or present, diagnosed with an asbestos related disease?	Yes                      No Unknown	
<b>Indoor Information</b>		
Does the interior have Zonolite attic insulation?	Yes                      No Unknown	
Did the interior ever have Zonolite attic insulation?	Yes                      No Unknown                  NA	NA applies if attic currently has ZAI.
Are there vermiculite additives in any of the building materials?	Yes                      No Unknown	
<b>Outdoor Information</b>		
Is there any evidence of primary source materials at or near the property?	Yes                      No Unknown	
Could this have been tracked indoors or otherwise spread outdoors on the property?	Yes                      No Unknown	
<b>Overall Assessment</b>		
Are primary source materials present at the property?	Yes                      No	
Where are primary source materials located?	Inside                      Outside Both                          NA	
<b>ADDITIONAL INFORMATION</b>		
_____		
_____		
_____		
_____		

## CSS INFORMATION FIELD FORM (continued)

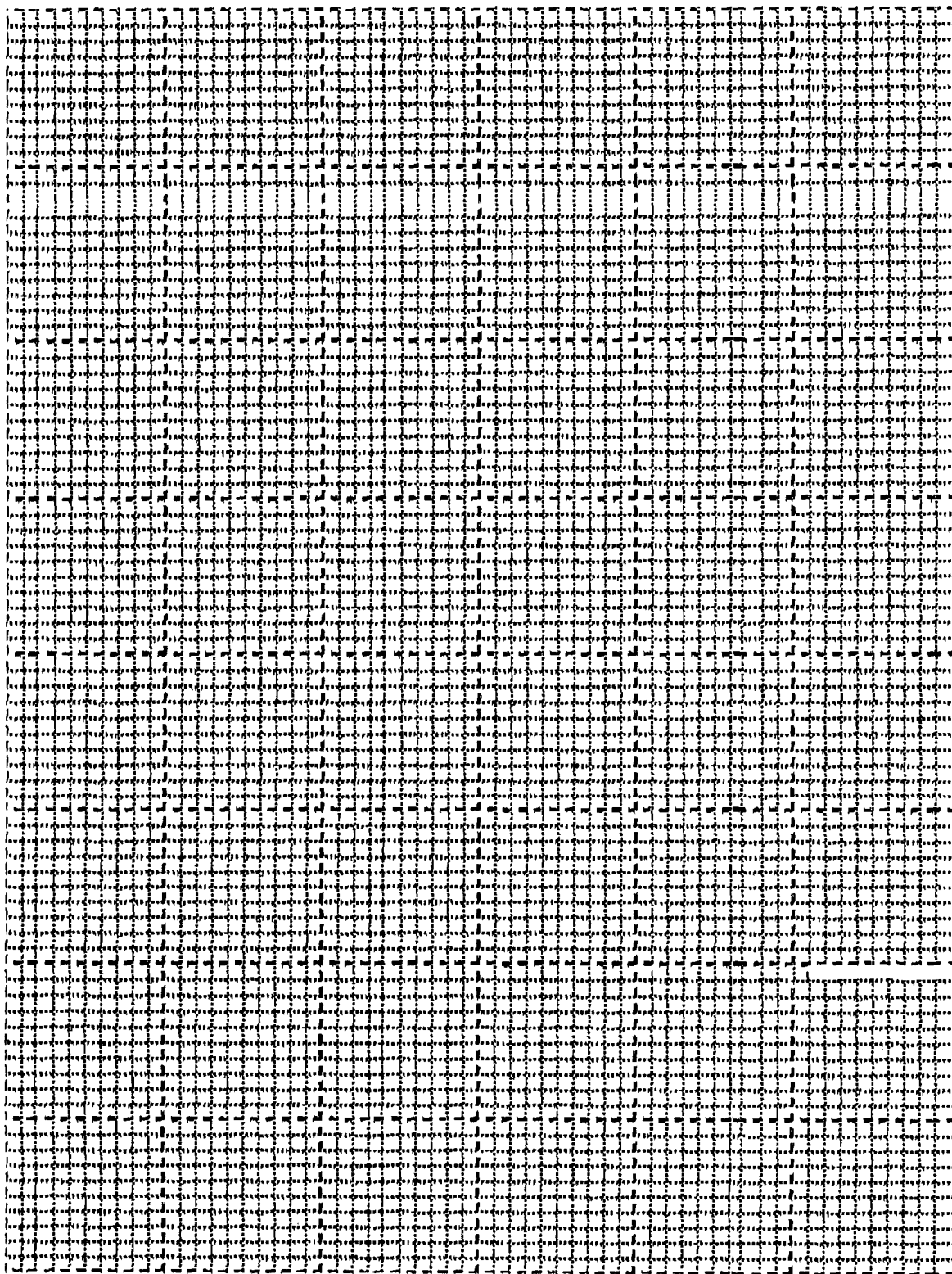
Address: \_\_\_\_\_

BD# \_\_\_\_\_

## FIELD DIAGRAM OF PROPERTY

Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc).

NOT TO SCALE



## CSS INFORMATION FIELD FORM (continued)

Address: \_\_\_\_\_

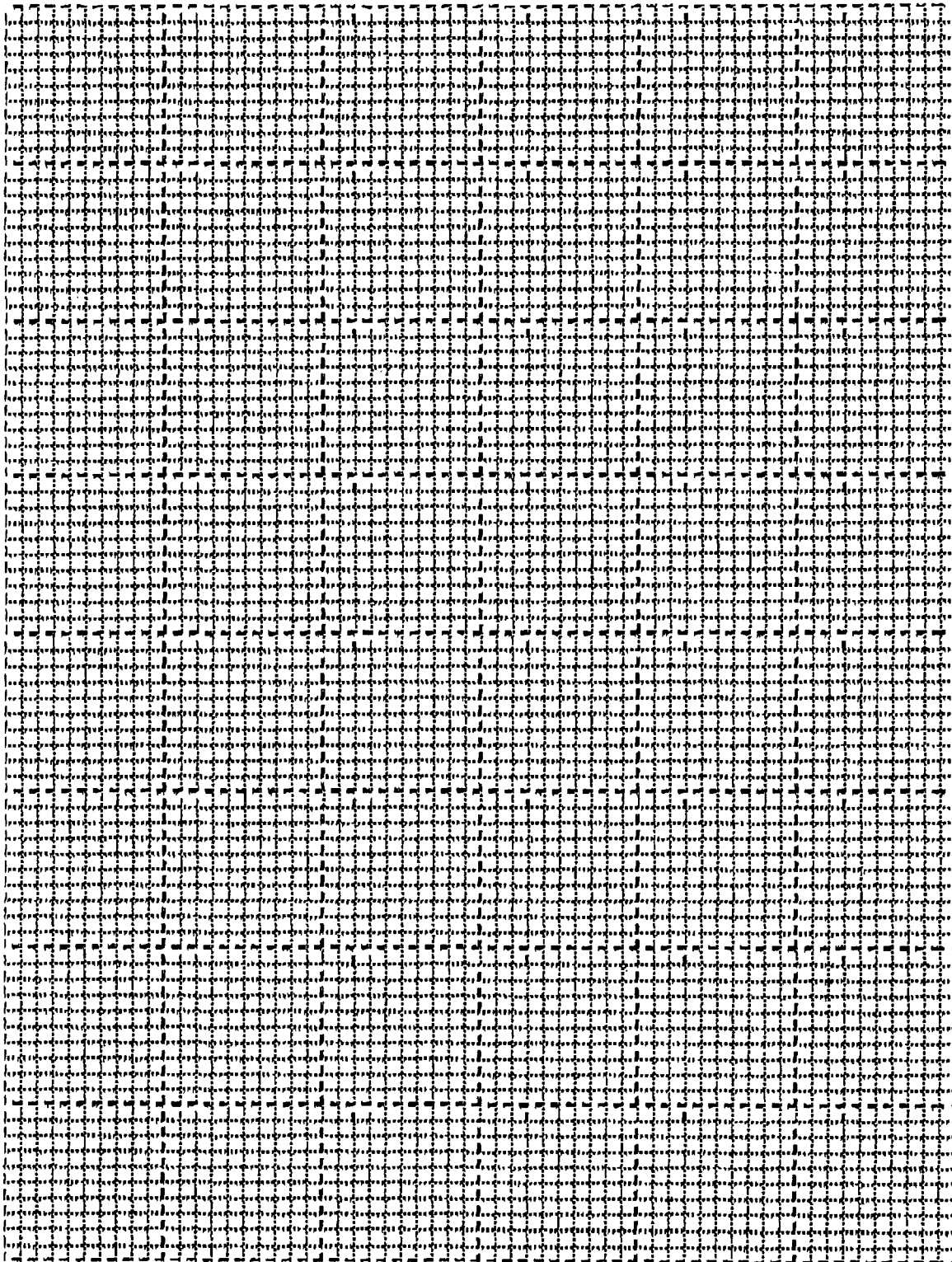
BP# \_\_\_\_\_

## FIELD DIAGRAM OF PRIMARY STRUCTURE

Floor of House (circle):    First    Second    Third    Basement

Include approximate dimensions of rooms and floor covering type. Use more than one diagram if needed. Completed only if ZAI is present.

Scale: 1/10" = 1 foot



110

Location Libby, MT Date 6/29/02  
 Project / Client Libby Asbestos Site  
Volpe Center EPA Region 8

- 1545 Prepare Modification Form 000042:  
 Version 3 of Primary Information Field Form.  
 Following changes were made to the Form  
 ① Number of Adults/Employees: 0 is added  
 as an option to use when properties are  
 vacant. <sup>6-29-02</sup> (2)  
 ② Vermiculite ~~Insulation~~ <sup>6-29-02</sup> Insulation Post or Present  
 Portion of the Indoor Assessment: Unknown  
 added as an option to <sup>6-29-02</sup> all categories to  
 use when <sup>6-29-02</sup> issue ~~can~~ question can not be  
 answered. (2)  
 ③ Exposure Assessment: Not Applicable  
 added to all categories as an option. To be  
 used when vermiculite is not present at the  
 property. (2)  
 ④ Did the interior ever have Zonolite ~~at the~~  
 insulation? Question answer NA provided  
 to be used if ~~at the~~ currently has ZAL  
 ⑤ Question "Is there evidence of primary  
 source materials near the property?" changed to  
 "Is there any evidence of primary source  
 materials at or near the property?"

**Record of Deviation/  
Request for Modification**to the  
Libby Sampling and Quality Assurance Project Plan**Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.**Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)Scenario No. (circle one): 1 2 3 4 NARequester: Dee WarrenTitle: CSS Task LeaderCompany: CDMDate: 7-15-02

## Description of Deviation:

Alconox detergent is not used as part of the decontamination procedures and steel brushes will be used to remove gross contamination.Field Logbook and page number deviation is documented on: 10057 <sup>7-15-02</sup> page 132

## Reason for Deviation:

Asbestos is not dissolved by detergent. Therefore the use of detergent in the decon procedure is not needed

## Potential Implications of this Deviation:

None

## Duration of Deviation (circle one):

Temporary

Date(s):

Resident address(es):

Permanent

(complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

Sik-Specific SOP for Soil Sample Collection - see attached copy of logbook documentation.Technical Review: NA 8/14/02

(Volpe Project Manager or designate) does not apply to CSS

Date:

Quality Assurance Review and Approval:

(Quality Assurance Coordinator or designate)

Date:

Approved By:

(USEPA RPM, OSC, or SSC)

Title:

Date:

Libby MT

Location

Project / Client

Date 7-15-02

Libby Asbestos Site

Valpe Center

EPA Region 8

0715 Review paperwork completed 7-13-02

0800 Attend morning meeting

0900 Receive call from Information Center: Rose

Hoods @ 1248 Nevada. 293-4724

would like to schedule an appointment.

Infor Shawn Olivera (Recan #3) —

1000 Receive call from Angela Frandsen

regarding Mod form need for not using

Alconox as part of decon.

1027 Prepare modification form #0000434

Alconox detergent w/ 75502 is not being used

as part of the decontamination procedures.

Modification To SAP: Site Specific SOP for

Soil Sample Collection page 6, first

paragraph: "Washing should be

performed by use of deionized water."

Date

Location

Project / Client



## Request for Modification

to the

Libby Sampling and Quality Assurance Project Plan

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.***The approved copy will be sent to the requester and a copy to CDM.*

Project QAAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
 Phase I (approved 4/00) Phase II (approved 2/01)  
 Removal Action (approved 7/00) CSS (approval 5/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: Dee WarrenTitle: CSS Task LeaderCompany: CDMDate: 7-15-02

## Description of Deviation:

Soil samples will be shipped in cooler lined with garbage bags. The garbage bags will be sealed with a rusted seal.

Field Logbook and page number deviation is documented on: 100057 page 132-133

## Reason for Deviation:

Another step to insure samples are kept under proper custody until they are received at the laboratory.

## Potential Implications of this Deviation:

None

## Duration of Deviation (circle one):

Temporary

Date(s): \_\_\_\_\_

Resident address(es): \_\_\_\_\_

Permanent

(complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

See attached copy of logbook pages.

Technical Review: NA8/15/02

(Volpe Project Manager or designate) does not apply to CSS

Date: \_\_\_\_\_

Quality Assurance Review and Approval: \_\_\_\_\_

(Quality Assurance Coordinator or designate)

Date: \_\_\_\_\_

Approved By: \_\_\_\_\_

(USEPA RPM, OSC, or SSC)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Libby MT

Location

Date 7-15-02

Project / Client

Libby Asbestos Site

Volpe Center

EPA Region 9

0715 Review paperwork completed 7-13-02

0880 Attend morning meeting

0900 Receive call from Information Center: Rose

bloods @ 1248 Nevada 293-4724

would like to schedule an appointment.

Inter Shaun Oliveira (Area #3)

1000 Receive call from Angela Frandson

regarding Mod form need for not using

A/C onyx as part of dupon.

1027 Prepare modification form #0000434

Alconex detergent w/ 7502 is not being used

as part of the decontamination procedures.

Modification To SAP: Site Specific SOP for

Soil Sample Collection page 6, first

paragraph: "Washing should be"

performed by use of deionized water.

1050 Return call 7-15-02 Fax Mod form D00044

to Angela Frandson and George Delullo

1052 Relinquish Mod form #000044 to Terry

Keller.

1055 Prepare Mod form #000045 - Samples

will be shipped in cooler lined with trash

bag, and trash bag will be sealed.

Modification To SAP: Page 5-6 Section

DWA

Libby MT

Location

Date 7-15-02

Project / Client

Libby Asbestos Site

Volpe Center

EPA Region 9

5.4.6 Sample Packaging and Shipping

- Delect modification to Section 1.5.

Procedures.

1100 Fax Mod #000045 to Angela

Frandson and George Delullo

1107 E-mail Jeff Montero with modification

documented in Mod forms 44 and 45.



# Record of Deviation/ Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.**

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)  
**Sediment Core Pilot Study (app. 6/02)**

Scenario No. (circle one): 1 2 3 4 **(NA)**

Requester: N. Cappelade

Title: Chemist

Company: USEPA, RS

Date: 7.11.02

## Description of Deviation:

Cores were sectioned @ 1 1/2" intervals @ Flower Lake & 0.5" intervals @ St. Mary's Lake. Photos were not taken of each core segment

Field Logbook and page number deviation is documented on: 12 & 28

## Reason for Deviation:

Core lengths & inferred sedimentation rates suggested alternate core segment thicknesses than proposed in the SQAPP. Photos of all segments (~60) was not feasible or practical since

Potential Implications of this Deviation: lighting was not ideal to reveal striations of sedimentation.

A coarse estimate of dating is likely, but sufficient for a pilot study. Increased probability to find asbestos fibers w/ a larger sample

Duration of Deviation (circle one):

**Temporary**

Date(s): 6.27.02 & 6.28.02

Resident address(es): Flower Lake

St. Mary's Lake

Permanent (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

Technical Review: Nancy Cappelade  
(Volpe Project Manager or designate) does not apply to CSS

Date: 7.11.02

Quality Assurance Review and Approval:  
(Quality Assurance Coordinator or designate)

Date: \_\_\_\_\_

Approved By: \_\_\_\_\_  
(USEPA RPM, OSC, or SSC)

Title: \_\_\_\_\_

Date: \_\_\_\_\_



# Record of Deviation/ Request for Modification

to the  
Libby Sampling and Quality Assurance Project Plan

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.**

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 5/02)  
Lake Bottom Sediment Core Pilot Study (app. 6/02)

Scenario No. (circle one): 1 2 3 4 NA

Requester: M. Goldade Title: chemist  
Company: USEPA, RS Date: 7.11.02

Description of Deviation:  
Archived samples not retained for pilot study.

Field Logbook and page number deviation is documented on: 11, 33

Reason for Deviation:  
The core could not be retained intact in transit to the lab.

Potential Implications of this Deviation:  
Further evaluation of cores cannot be performed, if necessary. Implications are that if questions remain, further sampling would be necessary. However, as a pilot study, this is simply a range-finding effort. Impact is minimal.

Duration of Deviation (circle one): Temporary Date(s): \_\_\_\_\_  
Resident address(es): \_\_\_\_\_

Permanent (complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable): pg. 6 Sect B3 "Study Cores" & pg. 7, Sect B3 "Sample Handling & Archiving" → Change language to indicate what an archive core will be collected if possible.

Technical Review: M. Goldade Date: 7/11/02  
(Volpe Project Manager or designate) does not apply to CSS

Quality Assurance Review and Approval: \_\_\_\_\_ Date: \_\_\_\_\_  
(Quality Assurance Coordinator or designate)

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
(USEPA RPM, DSC, or SSC)

**Record of Deviation/  
Request for Modification**to the  
**Libby Sampling and Quality Assurance Project Plan**

000048

**Instructions to Requester: Fax to contacts at bottom of form for review and approval.  
File approved copy with Data Manager and fax copy to SRC.**

Project QAPP (circle one): PE Study Part a (approved 6/00), b (approval pending), c (approval pending)  
Phase I (approved 4/00) Phase II (approved 2/01)  
Removal Action (approved 7/00) CSS (approval 6/02)

Scenario No. (circle one): 1 2 3 4 NARequester: Dee Warren  
Company: CDMTitle: CSS Task Leader  
Date: 7-30-02

## Description of Deviation:

Addition of area for recording date of soil sample collection  
to the header portion of the primary IFF.Field Logbook and page number deviation is documented on: 100091 page 19

## Reason for Deviation:

To be able to determine if Sam when sample collection occurred  
by looking at the IFF

## Potential Implications of this Deviation:

None

## Duration of Deviation (circle one):

Temporary

Date(s):

Resident address(es):

Permanent

(complete Proposed Modification Section)

Proposed Modification to SQAPP (attach additional sheets if necessary; state section and page numbers of SQAPP when applicable):

See attached logbook pages

## Technical Review:

(Volpe Project Manager or designate) does not apply to CSS

Data:

7/30/02

## Quality Assurance Review and Approval:

(Quality Assurance Coordinator or designate)

Date:

8/20/02

## Approved By:

(USEPA RPM, OSC, or SSC)

Title:

RPM

Date:

8/20/02